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## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

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Total Number	of Pages in	This Submission	l

Application Number	10/662,942
Filing Date	Sep 15, 2003
First Named Inventor	Das
Group Art Unit	2122
Examiner Name	
Attorney Docket Number	MS1-1734US

	ENCLOSURES (check all that apply)
Fee Transmittal Form	Assignment Papers After Allowance Communication to Group
Fee Attached	Drawing(s)  Sheets  Appeal Communication to Board of Appeals and Interferences
Amendment / Reply	Licensing-related Papers  Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
After Final	Petition Petition to Convert to a
Affidavits/declaration(s)	Provisional Application Status Letter
Extension of Time Request	Power of Attorney, Revocation Change of Correspondence Address  Other Enclosure(s) (please identify below):
Express Abandonment Request	Request for Refund Receipt Postcard Cited References (32)
Information Disclosure Statement	CD, Number of CD(s)
Certified Copy of Priority Document(s)	Remarks
Response to Missing Parts/ Incomplete Application	
Response to Missing Parts under 37 CFR 1.52 or 1.53	
and of or K 1.52 or 1.55	
SIGNATU	JRE OF APPLICANT, ATTORNEY, OR AGENT
Firm or Individual name  Marcia A. Tunheim	
Signature Marcia  Date 3/22/21	A. Tunken
Date 3/29/04	
	CERTIFICATE OF MAILING

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### ANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

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Complete if Known				
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Attorney Docket No.	MS1-1734US			

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	2003 265 Plant filing fee		1402	330	2402	165	Filing a brief in support of an appeal	<b>  </b>
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SUBMITTED BY			(Complete (if applicable))
Name (Print/Type)	Marcia A. Tunheim	Registration No. (Attorney/Agent) 42,189	Telephone (206) 315-4001
Signature	Marcia A. F	inh	Date 3/29/04

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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EXPNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.	10/662.942
Filing Date	
Inventorship	Das
Applicant	Microsoft Corporation
Group Art Unit	2122
Attorney's Docket No	MS1-1734US
Title: System and Method for Performing Path-Sensitive	ve Value Flow Analysis On
A Program	

#### **INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97(b)**

The citations listed, copies attached, may be material to the examination of the subject application and are therefore submitted in compliance with the duty of disclosure defined in 37 CFR §1.56. The Examiner is requested to make these citations of official record in this application.

Respectfully Submitted,

Date: 3/29/04

Marcia A. Tunheim Reg. No. 42,189

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	10/662,942			
Filing Date	Sep 15, 2003			
First Named Inventor	Das			
Group Art Unit	2122			
Examiner Name				
Attorney Docket Number	MS1-1734US			

	U.S. PATENT DOCUMENTS						
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Signature	Considered

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.



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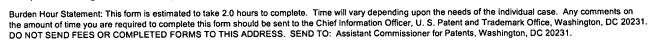
Sheet 2 of 4

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First Named Inventor	Das					
Group Art Unit	2122					
Examiner Name						
Attorney Docket Number	MS1-1734US					

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Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	Aiken, et al., "Checking and Inferring Local Non-Aliasing", Proceedings of the ACM SIGPLAN, Conference on Programming Language Design and Implementation, pp. 129-140, 2003.	
	Bodik, et al., "Path-Sensitive Value-Flow Analysis", Conference Record of the Twenty-Fifth ACM Symposium on Principles of Programming Languages, pp. 237-251, 1998.	
	Bozga, et al., "Storeless Semantics and Alias Logic", Proceedings of the 2003 ACM SIGPLAN Workshop on Partial Evaluation and Semantics-Based Program Manipulation, pp. 55-65, June 2003.	
	Bush, et al., "A Static Analyzer for Finding Dynamic Programming Errors", Software- Practice and Experience, Vol. 30, No. 7, pp. 775-802, 2000.	
	Ball et al., "Automatically Validating Temporal Safety Properties of Interfaces", Proceedings of SPIN '01, 8th Annual SPIN Workshop on Model Checking of Software, May 2001.	
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	Manuvir Das, "Unification-Based Pointer Analysis with Directional Assignments", Proceedings of the ACM SIGPLAN 2000, Conference in Programming Languages Design and Implementation, 2000.	
	Deline, et al., "Enforcing High-Level Protocols in Low-Level Software", Proceedings of the ACM SIGPLAN 2001 Conference on Programming Language Design and Implementation, 2001.	
	Das, et al., "Estimating the IMpact of Scalable Pointer Analysis on Optimization", 8th International Symposium on Static Analysis, 2001.	
	Das, et al., "Esp: Path-Sensitive Porgram Verification in Polynomial Time", Proceedings of the ACM SIGPLAN 2002 Conference on Programming Langue Design and Implementation, 2002.	:
	Flanagan, et al, "Extended Static Checking for Java", Proceedings of the ACM SIGPLAN 2002 Conference on Programming Language Design and Implementation, 2002.	
		Aiken, et al., "Checking and Inferring Local Non-Aliasing", Proceedings of the ACM SIGPLAN, Conference on Programming Language Design and Implementation, pp. 129-140, 2003.  Bodik, et al., "Path-Sensitive Value-Flow Analysis", Conference Record of the Twenty-Fifth ACM Symposium on Principles of Programming Languages, pp. 237-251, 1998.  Bozga, et al., "Storeless Semantics and Alias Logic", Proceedings of the 2003 ACM SIGPLAN Workshop on Partial Evaluation and Semantics-Based Program Manipulation, pp. 55-65, June 2003.  Bush, et al., "A Static Analyzer for Finding Dynamic Programming Errors", Software- Practice and Experience, Vol. 30, No. 7, pp. 775-802, 2000.  Ball et al., "Automatically Validating Temporal Safety Properties of Interfaces", Proceedings of SPIN '01, 8th Annual SPIN Workshop on Model Checking of Software, May 2001.  Chatterjee, et al., "Relevant Context Interface", Conference Record of the Twenty-Sixth ACM Symposium on Principles of Programming Languages, pp. 133-146, 1999.  Manuvir Das, "Unification-Based Pointer Analysis with Directional Assignments", Proceedings of the ACM SIGPLAN 2000, Conference in Programming Languages Design and Implementation, 2000.  Deline, et al., "Enforcing High-Level Protocols in Low-Level Software", Proceedings of the ACM SIGPLAN 2001 Conference on Programming Language Design and Implementation, 2001.  Das, et al., "Estimating the IMpact of Scalable Pointer Analysis on Optimization", 8th International Symposium on Static Analysis, 2001.  Das, et al., "Esp: Path-Sensitive Porgram Verification in Polynomial Time", Proceedings of the ACM SIGPLAN 2002 Conference on Programming Langue Design and Implementation, 2002.

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Signature	Considered	

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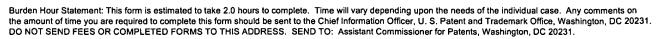
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Group Art Unit	2122						
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Attorney Docket Number	MS1-1734US						
Examiner Name	MS1-1734US						

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Foster, et al., "Flow-Sensitive Type Qualifiers", Proceedings of teh ACM SIGPLAN 2002 Conference on Programming Language Design and Implementation, 2002.	
		Hallem, et al., "A System and Language for Building System-Specific, Statis Analysis", Proceedings of the ACM SIGPLAN 2002 Conference on Programming Language Design and Implementation, 2002.	
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		Horwitz, et al., "Interprocedural Slicing Using Depedence Graphs", ACM Trans. Program, Lang. Syst., Vol. 12, No. 1, pp. 26-60, January 1990.	
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		Knoop, et al., "Efficient and Optimal Bit-Vector Dataflow Analysis: A Uniform Interprocedural Framework", Technical Report Bericht Nr. 9309, Instut Fur Informatik und Praktische Mathematik, Christian-Albrechts-Universitat Kiel, Germany, 1993.	
		Liang, et al., "Reuse-Driven Interprocedural Slicing in the Presence of Pointers and Recursion", International Conference on Software Maintenance, 1999.	
		Landi, et al., "Interprocedural Modification Side Effect Analysis with Pointer Aliasing", Proceedings of the 1993 ACM SIGPLAN Conference on Programming Language Designa nd Implementation, pp. 56-67, 1993.	
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Signature	Cons	idered

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.



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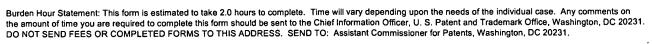
Sheet 4 of 4

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		Milanova, et al., "Precise and Efficient Call Graph Construction for C Programs with Function Pointers", Journal of Automated Software Engineering, pages 12, 2004.	
		Nelson, et al., "Simplification by Cooperating Decision Procedures", TOPLAS: ACM Transactions on Programming Language and Systems, Vol. 1, No. 2, pp. 245-257, 1979.	
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		Sagiv, et al., "Parametric Shape Analysis via 3-Valued Logic", Conference Record of the Twenty-Sixth ACM Symposium on Principles of Programming Languages, 1999.	
		Bjarne Steensgaard, "Points-to Analysis in Almost Linear Time", Conference Record of the Twenty-Third ACM Symposium on Principles of Programming Languages, 1996.	
		Wilson, et al., "Efficient Context-Sensitive Pointer Analysis for C Programs", Proceedings of the ACM SIGPLAN 95 Conference on Programming Language Design and Implementation, 1995.	
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Signature	Considered	

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